

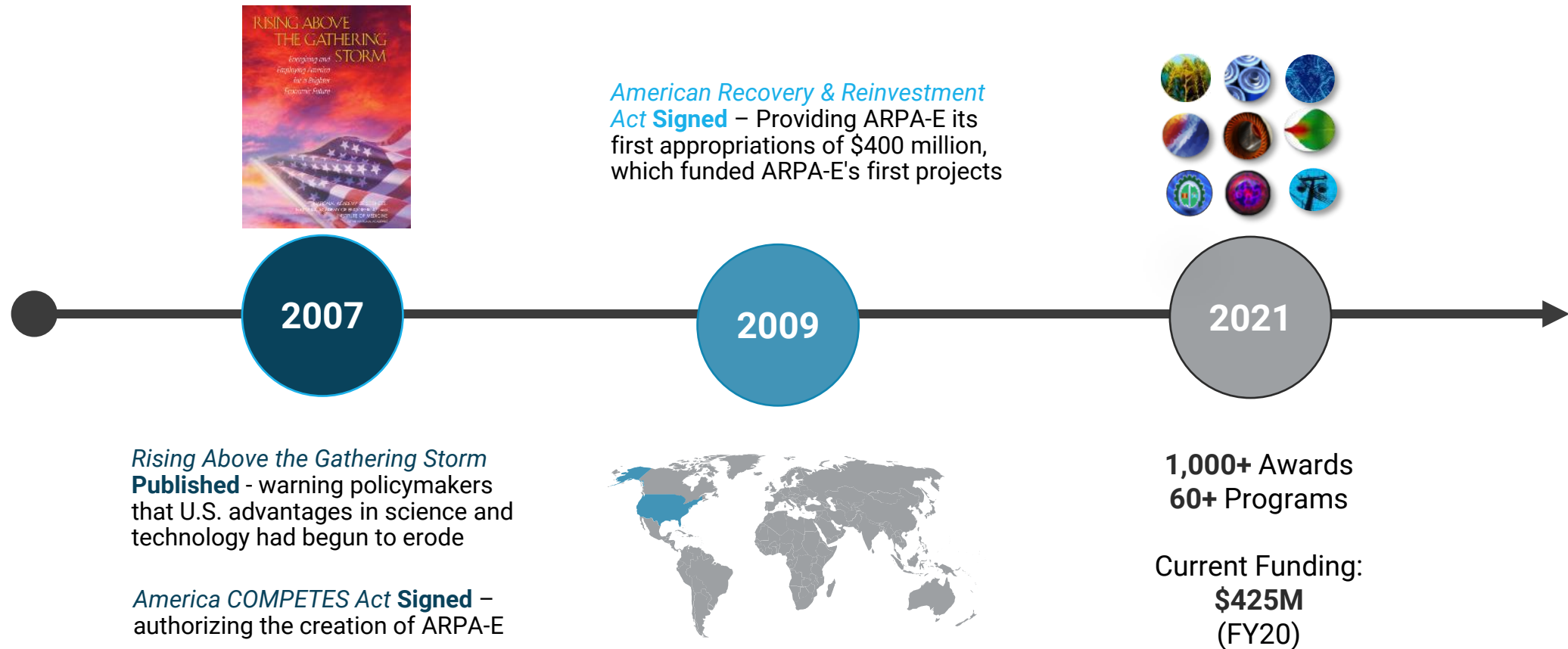
Welcome from ARPA-E

James Zahler, Assoc. Dir. of T2M

July 16, 2021

History of ARPA-E

In 2007, The National Academies recommended Congress establish an Advanced Research Projects Agency within the U.S. Department of Energy to fund advanced energy R&D.



ARPA-E Mission

Goal 1: To enhance the economic and energy security of the United States through the development of energy technologies that—



REDUCE
IMPORTS



IMPROVE
EFFICIENCY



REDUCE
EMISSIONS



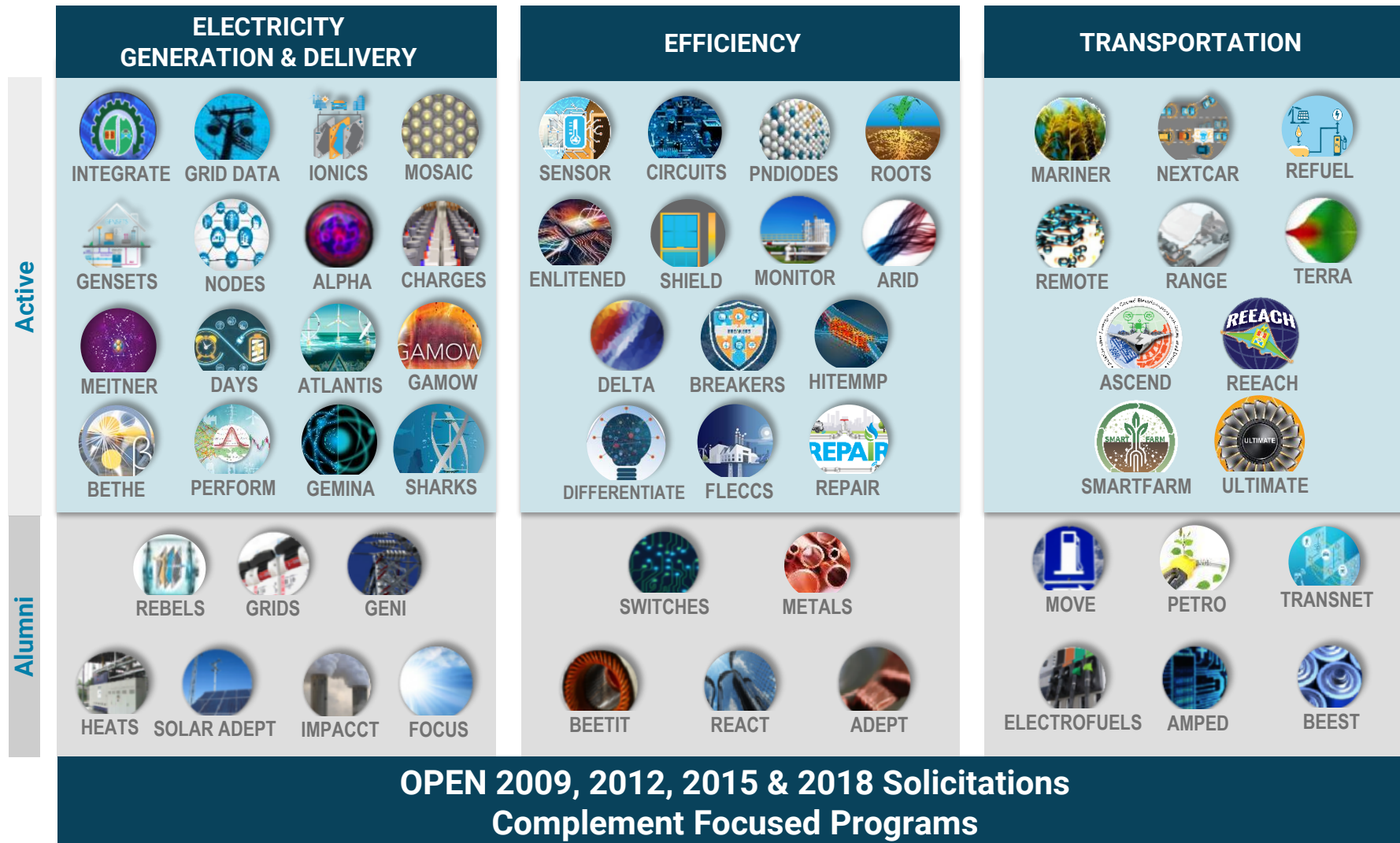
IMPROVE THE MANAGEMENT,
CLEAN-UP, AND DISPOSAL OF
RADIOACTIVE WASTE AND SPENT
NUCLEAR FUEL



IMPROVE THE RESILIENCE,
RELIABILITY, AND SECURITY OF
ENERGY INFRASTRUCTURE

Goal 2: To ensure that the United States maintains a technological lead in developing and deploying advanced energy technologies.

ARPA-E Program Portfolio

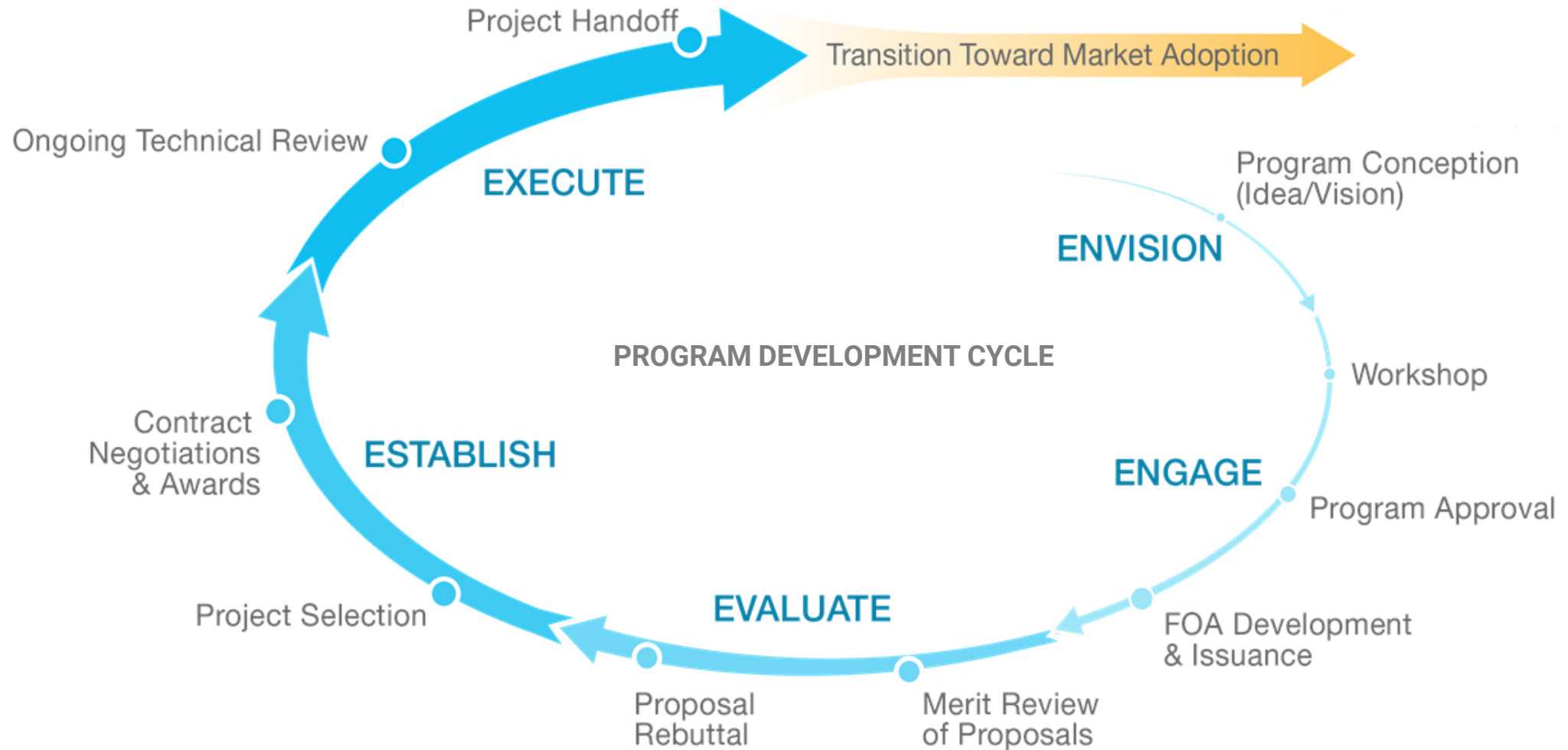




If it works...

will it matter?

Technology Acceleration Model



ARPA-E Impact Indicators 2021

Since 2009
ARPA-E has
provided

\$2.79 billion

in R&D funding to
more than **1,190 projects**



181 projects

have attracted
more than

\$5.4 billion

in private-sector follow-on funding



92 companies

formed by
**ARPA-E
projects**



14 exits

market valuations worth

\$3.9 billion

from mergers, acquisitions, and IPOs



242 projects

have **partnered
with other
government
agencies**
for further
development



4,871

peer-reviewed
journal articles
from ARPA-E
projects



751 patents

issued by U.S.
Patent and
Trademark Office



242 licenses

reported from
ARPA-E projects



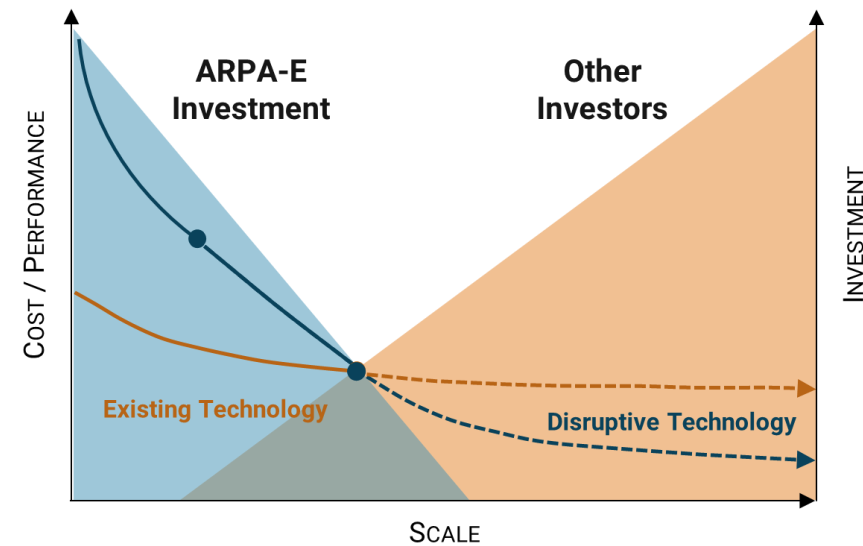
As of May 2021

SCALEUP Program

Seeding Critical Advances for Leading technologies with Untapped Potential

Address the need for greater de-risking and value demonstration of ARPA-E technologies to access private-sector funding

- ▶ The “hypothesis” – SCALEUP enables
 - **IP transfer** from the lab
 - Private sector **partnerships** and collaborations
 - **National investment** and prevent IP lost to foreign entities
 - Greater and more **economic opportunities** from our early-stage grants



Join the Team that is Transforming the Energy of Tomorrow

PROGRAM DIRECTOR



- Program development
- Active project management
- Thought leadership
- Explore new technical areas

TECHNOLOGY-TO-MARKET ADVISOR



- Business development
- Technical marketing
- Techno-economic analyses
- Stakeholder outreach

FELLOW



- Independent energy technology development
- Program Director support
- Organizational support

Learn more and apply: www.arpa-e.energy.gov/jobs or arpa-e-jobs@hq.doe.gov.



U.S. DEPARTMENT OF
ENERGY

<https://arpa-e.energy.gov>

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